

Processes for haloalkylation of high performance polymers

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Abstract

Disclosed is a process which comprises reacting a polymer of the general formula or wherein x is an integer of 0 or 1, A and B are specified groups, and n is an integer representing the number of repeating monomer units, with an acetyl halide and dimethoxymethane in the presence of a halogen-containing Lewis acid catalyst and methanol, thereby forming a haloalkylated polymer. In a specific embodiment, the haloalkylated polymer is then reacted further to replace at least some of the haloalkyl groups with photosensitivity-imparting groups. Also disclosed is a process for preparing a thermal ink jet printhead with the aforementioned polymer.

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